

SF869T

Narrow Band Low Loss RF Filter for ISM Application

This product is lead-free in compliance with RoHs 2002/95/EC.

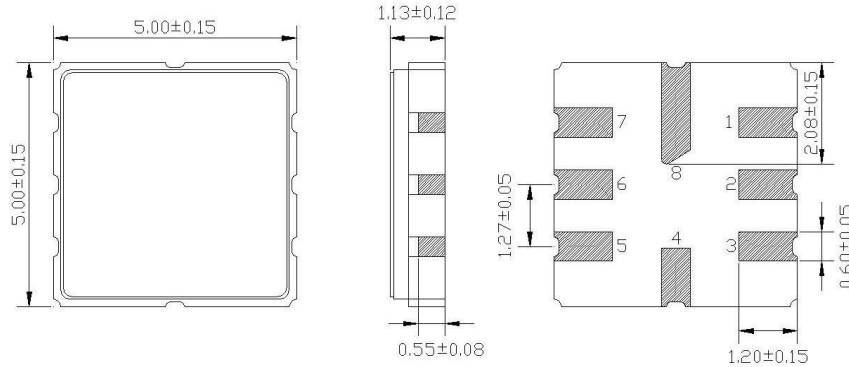
Test Conditions:

RF power	-10 dBm	
Temperature	23 °C	
DC Voltage	6 V	
Terminating source impedance (Z_S):	50 Ω	<input checked="" type="checkbox"/> Matching Required
Terminating load impedance (Z_L):	50 Ω	<input checked="" type="checkbox"/> Matching Required

	minimum	typical	maximum	unit
Centre frequency		868.3		MHz
Insertion Loss in Pass Band 868.1 MHz – 868.5 MHz		3.0	4.0	dB
Ripple in Pass Band 868.1 MHz – 868.5 MHz		0.5	1.0	dB
Rejection				
10 MHz – 600 MHz	55	60		dB
600 MHz – 750 MHz	45	50		dB
750 MHz – 860 MHz	40	45		dB
860 MHz – 863 MHz	32	35		dB
863 MHz – 866 MHz	22	25		dB
866 MHz – 867 MHz	16	22		dB
870 MHz – 872 MHz	16	22		dB
872 MHz – 880 MHz	28	32		dB
880 MHz – 1000 MHz	38	42		dB
1000 MHz – 2500 MHz	50	55		dB
RF Power			10	dBm
Operating temperature range	-40		+125	°C
Storage temperature range	-40		+125	°C
Impedance for matching Z_{IN}		260 1.0		Ω pF
Impedance for matching Z_{OUT}		260 1.0		Ω pF
Temperature coefficient of frequency		-0.032		ppm/K ²

Electrostatic Sensitive Device

Package: S52 / 5.0*5.0mm²

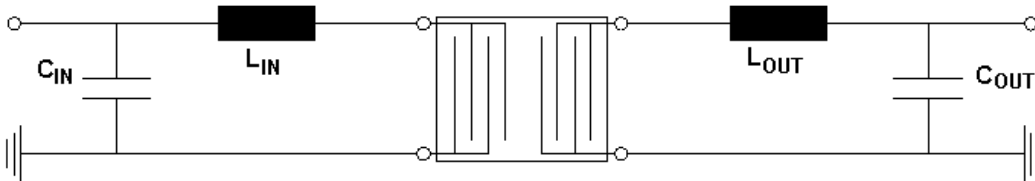


- Pin 2 Input
 - Pin 6 Output
 - Pin 1, 3 Input Ground
 - Pin 4, 8 Case ground
 - Pin 5, 7 Output Ground
- All dimensions in mm

Matching network to 50 Ω: ¹⁾

L_{IN} : 19nH
 C_{IN} : 2.2pF

L_{OUT} : 19nH
 C_{OUT} : 2.2pF



¹⁾ Matching elements are based on circuit with ideal components. Matching values may vary due to PCB layout and real components.

Typical performance:

